

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Jeffrey M. Sieracki; Confirmation No. Unknown  
Richard B. North

Serial No.: 10/696,781

Filed: October 29, 2003 Customer No.: 28863

Examiner: Unknown

Group Art Unit: Unknown Docket No.: 1023-224US01

Title: NEUROSTIMULATION THERAPY MANIPULATION

CERTIFICATE UNDER 37 CFR 1.8: I hereby certify that this correspondence is being deposited with the United States Post Service, as First Class Mail, in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450 on April 9, 2004.

By: *Shirley A. Betlach*  
Name: Shirley A. Betlach

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
Alexandria, VA 22313-1450

Dear Sir:

Applicant submits the references listed on the attached form PTO-1449. This statement is being filed, to the best of Applicant's knowledge, before the receipt of a first Office Action on the merits.

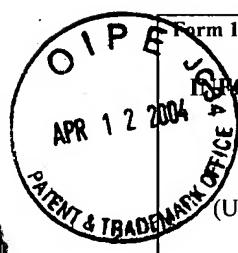
Applicants have enclosed a copy of each article cited and each foreign document cited. Copies of the U.S. patents are not enclosed as this application was filed after June 30, 2003.

Respectfully submitted,

Date: 4-9-04

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By: *Jason D. Kelly*  
Reg. No. 54,213



Form 1449\*

INFORMATION DISCLOSURE  
STATEMENT  
IN AN APPLICATION  
(Use several sheets if necessary)

Docket Number: 1023-224US01	Application Number: 10/696,781
Applicant: Jeffrey M. Sieracki; Richard B. North	
Filing Date: October 29, 2003	Group Art Unit: Unknown
Examiner Name: Unknown	

## U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Issue/Document Publication Date	Name	Filing Date If Appropriate
	4,793,353	12/27/1988	Borkan	
	5,938,690	08/17/1999	Law et al.	
	5,983,140	11/09/1999	Smith et al.	
	6,052,624	04/18/2000	Mann	
	2001/0007950	07/12/2001	North et al.	
	6,308,102	10/23/2001	Sieracki et al.	
	6,381,496	04/30/2002	Meadows et al.	
	6,393,325	05/21/2002	Mann et al.	

## FOREIGN PATENT DOCUMENTS

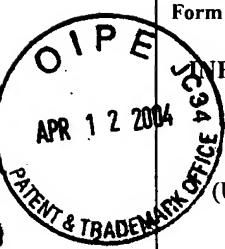
Examiner Initial	Document Number	Publication Date	Country	Translation	
				Yes	No
	WO 01/83028	11/08/2001	PCT		

## OTHER DOCUMENTS (Including Authors, Title of Item, Page(s), Vol/Issue No., Publisher, Place of Publication)

	Fowler, K.R., "Neurological Stimulation System", Proceedings AAMI 21st Annual Meeting, Apr. 12-16, p. 27, 1986.
	Fowler, K. R., North, R.B.: "Patient-interactive PC interface to implanted, multichannel stimulators," Proceedings of 39th Annual Conference on Engineering in Medicine and Biology, p. 380, 1986.
	North, R.B., Fowler, K.R., "Computer-controlled, patient-interactive, multichannel, implanted neurological stimulators," Applied Neurophysiology, 50:39-41, 1987.
	North, R.B., Nigrin, D.J., Szymanski, R.E., Fowler, K.R., "Computer-controlled, multichannel, implanted neurological stimulation system: Clinical assessment," Pain (Suppl.), 5:S83, 1990.
	Fowler, K.R., North, R.B., "Computer-optimized neurological stimulation," Proc. Ann. Internat. Conf. IEEE Engineering Medicine and Biology Soc., 13:1692-1693, 1991.
	Fowler, K.R., North, R.B., "Computer-optimized neurostimulation," APL Technical Digest, 12:192-197, 1991.
	North, R.B., et al., "Spinal cord stimulation for chronic intractable pain: superiority of 'multi-channel' devices," Pain, V44, pp. 119-130, 1991.

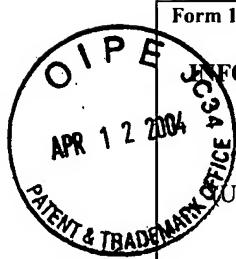
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			Translation Yes	Translation No
<b>OTHER DOCUMENTS (Including Authors, Title of Item, Page(s), Vol/Issue No., Publisher, Place of Publication)</b>				
	North, R.B., Fowler, K.R., "Computer-controlled, patient-interactive neurological stimulation system," (Abstract) Acta Neurochir, 117:90, 1992.			
	North, R.B., Fowler, K.R., Nigrin, D.A., Szymanski, R.E., "Patient interactive, computer-controlled neurological stimulation system: Clinical efficacy in spinal cord stimulator adjustment," Journal of Neurosurgery, 76:967-972, 1992.			
	North, R.B., Fowler, K.R., Nigrin, D.A., Szymanski, R.E., Piantadosi, S., "Automated 'pain drawing' analysis by computer-controlled, patient-interactive neurological stimulation system," Pain, 50:51-57, 1992.			
	North, R.B., "Spinal Cord Stimulation for Chronic Intractable Pain," Electrical and Magnetic Stimulation of the Brain and Spinal Cord, pp. 289-301, 1993.			
	North, R.B., "The Role of Spinal Cord Stimulation in Contemporary Pain Management," APS Journal, vol. 2, No. 2, pp. 91-99, 1993.			
	North, R. B., Kidd, D. H., Zahurak, M., James, C. S., Long, D. M., "Spinal cord stimulation for chronic, intractable pain: Experience over two decades," Neurosurgery, 32:384-395, 1993.			
	North, R.B., Fowler, K.R., "Patient-interactive, microprocessor-controlled neurological stimulation system" (abstract), Stereotactic and Functional Neurosurgery, 62:309-315, 1994.			
	North, R. B., Levy, R. M., "Consensus conference on the neurosurgical management of pain," Neurosurgery, 34:756-761, 1994.			
	North, R.B., McNamee, P., Wu, L., Piantadosi, S., "Artificial neural networks: Application to electrical stimulation of the human nervous system," (abstract) Stereotactic and Functional Neurosurgery, 65:161, 1995.			
<b>EXAMINER</b>		<b>Date Considered</b>		

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<b>OTHER DOCUMENTS</b> (Including Authors, Title of Item, Page(s), Vol/Issue No., Publisher, Place of Publication)				
	North, R. B., Kidd, D. H., Lee, M. S., Piantadosi, S., "A prospective, randomized study of spinal cord stimulation versus reoperation for the failed back surgery syndrom," Stereotactic and Functional Neurosurgery, 62:267-272, 1994.			
	North, R.B., et al., "Spinal Cord Stimulation For Chronic Pain," Functional Neurosurgery, vol. 6, No. 1, pp. 145-155, Jan. 1995.			
	North, R.B., Cutchis, P., "Spinal cord stimulation for chronic intractable pain," Spinal Cord Stimulation II, pp. 49-63, Darmstadt, Steinkopff, 1995.			
	North, R. B., Kidd, D. H., Wimberly, R. L., Edwin, D., "Prognostic value of psychological testing in spinal cord stimulation patients: A prospective study," Neurosurgery, 39:301-311, 1996.			
	North, R. B., Kidd, D. H., Zahirak, M., Piantadosi, S., "Specificity of diagnostic nerve blocks: A prospective, randomized study of sciatica due to lumbosacral spine disease," Pain, 65:77-85, 1996.			
	North, R.B., McNamee, P., Wu,L., Piantadosi, S., "Artificial neural networks: Application to electrical stimulation of the human nervous system," Neurosurgical Focus, 2(1:1):1-5, 1997.			
	Alo, K. M. et al., "Computer Assisted and Patient Interactive Programming of Dual Octrode Spinal Cord Stimulation in the Treatment of Chronic Pain," Neuromodulation, vol. 1, No. 1, pp. 30-45, 1998.			
	North, R.B., Sieracki, J.N., Fowler, K.R., Alvarez, B., Cutchis, P.N., "Patient-interactive, microprocessor-controlled neurological stimulation system," Neuromodulation, 1(4):185-193, 1998.			
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<b>OTHER DOCUMENTS (Including Authors, Title of Item, Page(s), Vol/Issue No., Publisher, Place of Publication)</b>				
	Khalessi, A. A., Taylor, R. S., Brigham, D. D., North, R. B., "Automated, patient-interactive spinal cord stimulator adjustment: A cost-minimization analysis," Neurosurgery, 53:501-502, 2003.			
	North, R. B., Calkins, S. K., Campbell, D. S., Sieracki, J. M., Piantadosi, S. A., Daly, M. J., Dey, P. B., Barolat, G., "Automated, patient-interactive spinal cord stimulator adjustment: A randomized, controlled trial," Neurosurgery 52:572-580, 2003.			
	U.S. Patent Application Serial Number 10/696,501, entitled "Implantable Neurostimulator Programming with Battery Longevity Indication", filed October 29, 2003, Richard B. North, Kim R. Fowler, Jeffrey M. Sieracki, David D. Brigham.			
	U.S. Patent Application Serial Number 10/696,494, entitled "Distributed System for Neurostimulation Therapy Programming", filed October 29, 2003, Richard B. North, Kim R. Fowler, Jeffrey M. Sieracki.			
	U.S. Patent Application Serial Number 10/696,725, entitled "Failsafe Programming of Implantable Medical Devices", filed October 29, 2003, Richard B. North, Jeffrey M. Sieracki.			
	U.S. Patent Application Serial Number 10/696,491, entitled "Body Region Indication", filed October 29, 2003, Richard B. North, Jeffrey M. Sieracki.			
	U.S. Patent Application Serial Number 10/696,778, entitled "Applying Filter Information to Identify Combinations of Electrodes", filed October 29, 2003, Richard B. North, Jeffrey M. Sieracki.			
	PCT International Search Report for PCT/US03/34243, mailed March 22, 2004.			
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